## In The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Previously Presented) A disk blade scraper for a tillage implement having a frame, a horizontal shaft suspended from the frame, a plurality of rotating disk blades arranged in laterally spaced relationship on the shaft, a hub spool surrounding the shaft between at least a pair of adjacent disk blades wherein a first end of the hub spool contacts one of the pair of adjacent disk blades thereby creating a transition joint between the first end of the hub spool and a surface of the one of the pair of adjacent disk blades, the scraper comprising:

a bracket connected to the frame; and

a rotating disk mounted to the bracket, the rotating disk having an axis of rotation and a circumferential edge parallel to the axis of rotation,

wherein the bracket is connected to the frame and the rotating disk is mounted to a lower end of the bracket such that the circumferential edge of the rotating disk is adjacent the transition joint and such that the lower end of the bracket is between the rotating disk and the one of the pair of adjacent disk blades.

- 1 2. (Original) The scraper of claim 1 wherein:
  2 the circumferential edge of the rotating disk contacts the transition joint.
  - 3. (Original) The scraper of claim 1 wherein:
- 2 an uppermost edge of the rotating disk does not extend above an uppermost 3 edge of an adjacent disk blade.
  - 4. (Original) The scraper of claim 1 wherein:
    - the surface of the one of the pair of adjacent disk blades is concave, an annular depression is formed in a region of the surface surrounding the transition joint, and the circumferential edge of the rotating disk is located within the depression.
  - 5. (Original) The scraper of claim 1 wherein:
- the circumferential edge of the rotating disk is 0.4 inches or less from the transition joint.
  - 6. (Original) The scraper of claim 1 wherein:
- the circumferential edge of the rotating disk is 0.03 to 0.13 inches from the transition joint.

1

1

2

3

4

1

1

Response to the Final Office Action dated July 13, 2005 Serial No. 10/788,624 filed on February 27, 2004 Art Unit: 3671

Page	3
rage	2

1	7.	(Original) The scraper of claim 1 wherein:
2		an outermost edge of the rotating disk does not extend beyond an outermost
3	edge of an a	djacent disk blade.
1	8.	(Withdrawn) A disk blade scraper for a tillage implement having a frame,
2	a horizontal	shaft suspended from the frame, a plurality of rotating disk blades arranged in
3	laterally spa	ced relationship on the shaft, a hub spool surrounding the shaft between at
4	least a pair o	of adjacent disk blades wherein a first end of the hub spool contacts one of the
5	pair of adjac	ent disk blades thereby creating a transition joint between the first end of the
6	hub spool ar	nd a surface of the one of the pair of adjacent disk blades, the scraper
7	comprising:	
8		a bracket connected to the frame; and
9		an elongated bar mounted to the bracket, the bar having a longitudinal axis
10	and a scrapi	ng surface at an end of the bar farthest from the bracket,
11		wherein the bracket is connected to the frame and the bar is mounted to the
12	bracket such	that the scraping surface is adjacent the transition joint and an imaginary
13	straight line	including the longitudinal axis intersects the hub spool if the imaginary
14	straight line	is extended beyond the end of the bar.
1	9.	(Withdrawn) The scraper of claim 8 wherein:
2		the scraping surface contacts the transition joint.
1	10.	(Withdrawn) The scraper of claim 8 wherein:
2		the scraping surface is 0.4 inches or less from the transition joint.
1	11.	(Withdrawn) The scraper of claim 8 wherein:
2		the scraping surface is 0.03 to 0.13 inches from the transition joint.
1	12.	(Withdrawn) The scraper of claim 8 wherein:
2		the scraping surface has at least a portion at an angle with respect to the
3	longitudinal	axis of the bar.
1	13.	(Withdrawn) The scraper of claim 8 wherein:
2		the bar has a circular cross-section.
1		•

Response to the Final Office Action dated July 13, 2005 Serial No. 10/788,624 filed on February 27, 2004

Art Unit: 3671

Page 4

1	14.	(Withdrawn) The scraper of claim 8 wherein:	
2		the bar has a square cross-section.	
1	15.	(Withdrawn) The scraper of claim 8 wherein:	
2		the surface of the one of the pair of adjacent disk blades is concave, an	
3	annular dep	pression is formed in a region of the surface surrounding the transition joint, and	
4	the scrapin	g surface is located within the depression.	
1	16.	(Withdrawn) The scraper of claim 8 further comprising:	
2		a second elongated bar mounted to the bracket, the second bar having a	
3	scraping surface at an end of the second bar farthest from the bracket,		
4		wherein a second transition joint is formed between a second end of the hub	
5	spool and a	surface of the other of the pair of adjacent disk blades, and	
6		wherein the bracket is connected to the frame and the second bar is	
7	mounted to the bracket such that the scraping surface of the second bar is adjacent the		
8	second tran	second transition joint.	
1	17.	(Withdrawn) The scraper of claim 16 wherein:	
2		the scraping surface of the second bar contacts the second transition joint.	
1	18.	(Withdrawn) A disk blade scraper for a tillage implement having a frame,	
2	a horizonta	l shaft suspended from the frame, a plurality of rotating disk blades arranged in	
3	laterally sp	aced relationship on the shaft, a hub spool surrounding the shaft between at	
4	least a pair	of adjacent disk blades wherein a first end of the hub spool contacts one of the	
5	pair of adja	cent disk blades thereby creating a transition joint between the first end of the	
6	hub spool a	and a surface of the one of the pair of adjacent disk blades, the scraper	
7	comprising	;	
8		a bracket connected to the frame; and	
9		an integral scraper blade mounted to the bracket, the scraper blade having a	
10	first end ad	jacent the mounting bracket, a first side and a second opposed side extending	
11	downwardl	y from the first end, the first side being shorter than the second side, and an	
12	opposite sc	raping end extending between the first side and the second side, the scraping	
13	end and the	e second side of the scraper blade meeting at a junction point,	

Response to the Final Office Action dated July 13, 2005 Serial No. 10/788,624 filed on February 27, 2004 Art Unit: 3671

Page 5

14		wherein the bracket is connected to the frame and the scraper blade is
15	mounted to the bracket such that the first side is further from the hub spool than the second	
16	side, and the junction point is adjacent the transition joint.	
1	19.	(Withdrawn) The scraper of claim 18 wherein:
2		the scraping end has a thickness in a direction normal to an outer surface of
3	the scraper	blade not exceeding a cross-sectional thickness of the first end in the direction.
1	20.	(Withdrawn) The scraper of claim 18 wherein:
2		the surface of the one of the pair of adjacent disk blades is concave, an
3	annular dep	pression is formed in a region of the surface surrounding the transition joint, and
4	the junction point is located within the depression.	
1	21.	(Withdrawn) The scraper of claim 18 wherein:
2		the junction point contacts the transition joint.
1	22.	The scraper of claim 18 wherein:
2		the junction point is 0.4 inches or less from the transition joint.
1	23.	(Withdrawn) The scraper of claim 18 wherein:
2		the junction point is 0.03 to 0.13 inches from the transition joint.
1	24.	(Withdrawn) The scraper of claim 18 wherein:
2		the scraping end contacts the surface of the one of the pair of adjacent disk
3	blades.	
1	25.	(Withdrawn) The scraper of claim 18 wherein:
2		the scraping end is 0.4 inches or less from one of the pair of adjacent disk
3	blades.	
1	26.	(Withdrawn) The scraper of claim 18 wherein:
2		the scraping end is 0.03 to 0.13 inches from one of the pair of adjacent disk
3	blades.	
1	27.	(Withdrawn) The scraper of claim 18 wherein:
2		the scraping end has a curved edge.
1		

Response to the Final Office Action dated July 13, 2005 Serial No. 10/788,624 filed on February 27, 2004 Art Unit: 3671

Page 6

1	28.	(Withdrawn) A disk blade scraper for a tillage implement having a frame,		
2	a horizon	tal shaft suspended from the frame, a plurality of rotating disk blades arranged in		
3	laterally s	laterally spaced relationship on the shaft, a hub spool surrounding the shaft between at		
4	least a pa	ir of adjacent disk blades wherein a first end of the hub spool contacts one of the		
5	pair of ad	jacent disk blades thereby creating a transition joint between the first end of the		
6	hub spoo	l and a surface of the one of the pair of adjacent disk blades, the scraper		
7	comprisi	ng:		
8		a bracket connected to the frame; and		
9		a scraper blade mounted to the bracket, the scraper blade having a first end,		
10	a second	end opposite the first end, a first side and a second opposed side extending		
11	downwar	dly from the first end, the second side including a scraping surface, the second		
12	side meet	ing the second end at a junction point,		
13		wherein the surface of the one of the pair of adjacent disk blades is convex,		
14	and			
15		wherein the bracket is connected to the frame and the scraper blade is		
16	mounted	to the bracket such that all of the scraper blade is positioned above the hub spool,		
17	the scrap	ing surface is positioned adjacent the convex surface, and the junction point is		
18	adjacent t	the transition joint.		
1	29.	(Withdrawn) The scraper of claim 28 wherein:		
2		the scraper blade is positioned on both sides of a vertical normal line to a		
3	center ax	is of the hub spool.		
1	30.	(Withdrawn) The scraper of claim 28 wherein:		
2		the scraping surface is positioned behind the center axis of the hub spool in		
3	relation to	o a direction of movement of the tillage implement.		
1	31.	(Withdrawn) The scraper of claim 28 wherein:		
2		the scraping surface contacts the convex surface.		
1	33.	(Withdrawn) The scraper of claim 28 wherein:		
2		the scraper blade is rectangular.		
1	34.	(Withdrawn) The scraper of claim 28 wherein:		
2		the junction point is 0.4 inches or less from the transition joint.		

1	35. (Withdrawn) The scraper of claim 28 wherein:
2	the junction point is 0.03 to 0.13 inches from the transition joint.
1	36. (Withdrawn) A disk blade scraper for a tillage implement having a
2	frame, a horizontal shaft suspended from the frame, a plurality of rotating disk blades
3	arranged in laterally spaced relationship on the shaft, a hub spool surrounding the shaft
4	between at least a pair of adjacent disk blades wherein a first end of the hub spool
5	contacts one of the pair of adjacent disk blades thereby creating a transition joint
6	between the first end of the hub spool and a surface of the one of the pair of adjacent
7	disk blades, the scraper comprising:
8	a bracket connected to the frame; and
9	a scraper blade mounted to the bracket, the scraper blade having a first
10	end, a second bottom end opposite the first end, a first side and a second opposed side
11	extending downwardly from the first end, the second side including a scraping surface,
12	the second side meeting the second end at a junction point,
13	wherein the surface of the one of the pair of adjacent disk blades is
14	convex,
15	wherein the bracket is connected to the frame and the scraper blade is
16	mounted to the bracket such that scraping surface is positioned adjacent the convex
17	surface, and the junction point is adjacent the transition joint, and
18	wherein the scraping surface has an inwardly curved edge that contacts
19	the convex surface.
1	37. (Withdrawn) The scraper of claim 36 wherein:
2	the scraping surface has a second inwardly curved edge that contacts a
3	crimp on the convex surface adjacent the transition joint.
1	38. (Withdrawn) The scraper of claim 36 wherein:
2	at least a portion of the scraping surface is positioned behind the center

axis of the hub spool in relation to a direction of movement of the tillage implement.

3